

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A rotary fluid machine comprising:
a first rotation mechanism ~~(2F)~~ and a second rotation mechanism ~~(2S)~~, each of which ~~including~~includes a cylinder ~~(21)~~ having an annular cylinder chamber ~~(50)~~;
an annular piston ~~(22)~~ ~~which is contained~~ disposed in the cylinder chamber ~~(50)~~ to be eccentric to the cylinder ~~(21)~~ and divides, the annular piston dividing the cylinder chamber ~~(50)~~ into an outer working chamber ~~(51)~~ and an inner working chamber ~~(52)~~; and
a blade ~~(23)~~ ~~which is arranged~~ in the cylinder chamber ~~(50)~~ to divide each of the working chambers ~~(51, 52)~~ into a high pressure region and a low pressure region, the piston ~~(22)~~ and the cylinder ~~(21)~~ serving as co-operating parts and any one of the piston ~~(22)~~ and the cylinder ~~(21)~~ being stationary and the other being ~~moving such that the moving co-operating part rotates~~ rotatable about the stationary co-operating part, wherein
the first rotation mechanism ~~(2F)~~ and the second rotation mechanism ~~(2S)~~ ~~are arranged to be~~ being adjacent to each other with a partition plate ~~(2e)~~ sandwiched therebetween, and
the two moving co-operating parts ~~(21)~~ or the two stationary co-operating parts ~~(22)~~ of the first rotation mechanism ~~(2F)~~ and the second rotation mechanism ~~(2S)~~ ~~are being~~ arranged such that one of the co-operating parts is provided at one side of the ~~end~~ partition plate ~~(2e)~~ and the other is provided at the other side of the ~~end~~ partition plate ~~(2e)~~.
2. (Currently Amended) The rotary fluid machine according to claim 1, wherein

the inner working chambers (~~52~~) of the cylinder chambers (~~50~~) of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) serve as low-stage compression chambers, and

the outer working chambers (~~51~~) of the cylinder chambers (~~50~~) of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) serve as high-stage compression chambers.

3. (Currently Amended) The rotary fluid machine according to claim 1, wherein the outer working chambers (~~51~~) of the cylinder chambers (~~50~~) of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) serve as compression chambers, and

the inner working chambers (~~52~~) of the cylinder chambers (~~50~~) of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) serve as expansion chambers.

4. (Currently Amended) The rotary fluid machine according to claim 1, wherein the partition plate (~~2e~~) serves as the end plates (~~26~~) of the co-operating parts (~~21~~) of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~).

5. (Currently Amended) The rotary fluid machine according to claim 1, wherein the co-operating part (~~21~~) of the first rotation mechanism (~~2F~~) and the co-operating part (~~21~~) of the second rotation mechanism (~~2S~~) adjacent to the first rotation mechanism (~~2F~~) have individual end plates (~~26~~), and

the partition plate (~~2e~~) is formed of the end plates (~~26~~) of the co-operating parts (~~21~~) of the first and second rotation mechanisms (~~2F~~, ~~2S~~).

6. (Currently Amended) The rotary fluid machine according to claim 1, wherein the moving co-operating parts (~~21~~) of the first and second rotation mechanisms (~~2F~~, ~~2S~~) are connected to a drive shaft, (~~33~~) and

each of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) is provided with a compliance mechanism (~~60~~) for adjusting the position of the co-operating parts (~~21~~, ~~22~~) in the an axial direction of the drive shaft (~~33~~).

7. (Currently Amended) The rotary fluid machine according to claim 1, wherein the moving co-operating parts (~~21~~) of the first and second rotation mechanisms (~~2F~~, ~~2S~~) are connected to a drive shaft, (~~33~~) and

each of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) is provided with a compliance mechanism (~~60~~) for adjusting the position of the co-operating parts (~~21~~) in the a direction orthogonal to the an axial direction of the drive shaft (~~33~~).

8. (Currently Amended) The rotary fluid machine according to claim 4, wherein the moving co-operating parts (~~21~~) of the first and second rotation mechanisms (~~2F~~, ~~2S~~) are connected to a drive shaft, (~~33~~) and

a balance weight (~~75~~) is provided at a part of the drive shaft (~~33~~) located between the end plates (~~26~~) of the co-operating parts of the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) adjacent to each other.

9. (Currently Amended) The rotary fluid machine according to claim 1, wherein the first rotation mechanism (~~2F~~) and the second rotation mechanism (~~2S~~) are configured to rotate with a 90° phase difference from each other.

10. (Currently Amended) The rotary fluid machine according to claim 1, wherein in each of the first and second rotation mechanisms (~~2F, 2S~~), part of the annular piston (~~22~~) is cut off such that the piston (~~22~~) is C-shaped,

the blade (~~23~~) extends from the inner wall surface to the outer wall surface of the cylinder chamber (~~50~~) and passes through the cut-off portion of the piston, (~~22~~) and

a swing bushing is provided in the cut-off portion of the piston (~~22~~) to contact the piston (~~22~~) and the blade (~~23~~) via the surfaces thereof such that the blade (~~23~~) freely reciprocates and the blade (~~23~~) and the piston (~~22~~) make relative swings.